

Abstract

Multispectral Imaging System and Methods of Use

5 The multispectral imaging system provides detection of
low contrast objects on or below the surface of a body of
water through the elimination of most of the surface
reflected light clutter components from multispectral
images. The images are processed by taking the weighted
10 difference of two or more spectral components and
applying a demeaning or whitening filter to the result.
The images can then be frame averaged where the
appropriate corrections for motion, magnification,
rotation, and translation have been applied. The
15 resultant imagery can then be displayed to an operator or
transmitted to a remote location.